

CLAIMS

1. An integrated control system for vehicle control, comprising at least three subsystems (PT, ECB, STR) operating autonomously and in parallel,

5 wherein said subsystem (PT, ECB, STR) comprises

a sensing unit for sensing information related to an operation request with respect to at least one of said subsystems (PT, ECB, STR),

a connection unit for connection with another subsystem other than its own subsystem, and

10 a generation unit for generating information related to an individual control target of its own subsystem based on said sensed information related to an operation request.

2. The vehicle integrated control system according to claim 1, wherein said generation unit includes an arbitration unit for arbitrating a plurality of information to generate information related to an individual control target of its own subsystem, based on said sensed information related to an operation request.

3. An integrated control system for vehicle control, comprising at least three subsystems (PT, ECB, STR) operating autonomously and in parallel,

20 wherein said subsystem (PT, ECB, STR) comprises

a sensing unit for sensing information related to an operation request with respect to at least one of said subsystems (PT, ECB, STR),

a connection unit for connection with another system other than its own subsystem, and

25 an arbitration unit for arbitrating a plurality of information to generate information related to an individual control target of its own subsystem, based on said sensed information related to an operation request.

4. The vehicle integrated control system according to claim 2 or 3, wherein said arbitration unit determines priority of information.

5. The vehicle integrated control system according to claim 2 or 3, wherein said arbitration unit corrects information.

6. The vehicle integrated control system according to claim 2 or 3, wherein said arbitration unit processes information.

10 7. The vehicle integrated control system according to any of claims 1-3, wherein said subsystem comprises a driving system control subsystem (PT), a brake system control subsystem (ECB), and a steering system control subsystem (STR).

15 8. The vehicle integrated control system according to claim 7, wherein said subsystem further comprises an automatic cruise subsystem controlling said vehicle for automatic cruising or pseudo automatic cruising of said vehicle.

20 9. The vehicle integrated control system according to claim 7, wherein said subsystem further comprises a dynamic stabilization subsystem controlling said vehicle so as to stabilize a behavior state of said vehicle.

25 10. An integrated control system for vehicle control, comprising at least three subsystems (PT, ECB, STR) operating autonomously and in parallel, wherein said subsystem (PT, ECB, STR) comprises sensing means for sensing information related to an operation request with respect to at least one of said subsystems (PT, ECB, STR), connection means for connection with another subsystem other than its own subsystem, and

generation means for generating information related to an individual control target of its own subsystem based on said sensed information related to an operation request.

- 5 11. The vehicle integrated control system according to claim 10, wherein said generation means includes arbitration means for arbitrating a plurality of information to generate information related to an individual control target of its own subsystem, based on said sensed information related to an operation request.
- 10 12. An integrated control system for vehicle control, comprising at least three subsystems (PT, ECB, STR) operating autonomously and in parallel,
 wherein said subsystem (PT, ECB, STR) comprises
 sensing means for sensing information related to an operation request with
 respect to at least one of said subsystems (PT, ECB, STR),
15 connection means for connection with another system other than its own
 subsystem, and
 arbitration means for arbitrating a plurality of information to generate
 information related to an individual control target of its own subsystem, based on said
 sensed information related to an operation request.
- 20 13. The vehicle integrated control system according to claim 11 or 12, wherein
 said arbitration means includes means for determining priority of information.
- 25 14. The vehicle integrated control system according to claim 11 or 12, wherein
 said arbitration means includes means for correcting information.
15. The vehicle integrated control system according to claim 11 or 12, wherein
 said arbitration means includes means for processing information.

16. The vehicle integrated control system according to any of claims 10-12, wherein said subsystem comprises a driving system control subsystem (PT), a brake system control subsystem (ECB), and a steering system control subsystem (STR).

5 17. The vehicle integrated control system according to claim 16, wherein said subsystem further comprises an automatic cruise subsystem controlling said vehicle for automatic cruising or pseudo automatic cruising of said vehicle.

10 18. The vehicle integrated control system according to claim 7, wherein said subsystem further comprises a dynamic stabilization subsystem controlling said vehicle so as to stabilize a behavior state of said vehicle.